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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/070,866	03/11/2002	Alfred Deinert	112740-551	2624
29177 75	590 05/29/2003			
BELL, BOYD & LLOYD, LLC			EXAMINER	
P. O. BOX 1135 CHICAGO, IL 60690-1135			CLINGER,	JAMES C
			ART UNIT	PAPER NUMBER
			2821	
			DATE MAILED: 05/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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Office Action Summary

Application No. 10/070,866 Applicant(s)

Deinert et al.

Examiner

Jim Clinger

Art Unit 2821



	The MAILING DATE of this communication appears	on the cover sheet with	the correspondence address		
	for Reply				
THE	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>three</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.				
	ions of time may be available under the provisions of 37 CFR 1.136 (a). In	no event, however, may a reply l	be timely filed after SIX (6) MONTHS from the		
- If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	nd will expire SIX (6) MONTHS f e application to become ABAND	rom the mailing date of this communication. ONED (35 U.S.C. § 133).		
Status					
1) 💢	Responsive to communication(s) filed on Sep 6, 20	00	·		
2a) 🗌	This action is FINAL . 2b) 💢 This act	ion is non-final.			
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposi	tion of Claims				
4) 💢	Claim(s) <u>11-20</u>		is/are pending in the application.		
4	a) Of the above, claim(s)		is/are withdrawn from consideration.		
5) 🗆	Claim(s)		is/are allowed.		
6) 💢	Claim(s) 11-20		is/are rejected.		
7) 🗆	Claim(s)		is/are objected to.		
8) 🗌	Claims	are subject	to restriction and/or election requirement.		
Applica	tion Papers				
9) 🗆	The specification is objected to by the Examiner.				
10)💢	The drawing(s) filed on Sep 6, 2000 is/are	a) 💢 accepted or b)	\square objected to by the Examiner.		
	Applicant may not request that any objection to the d	rawing(s) be held in abe	yance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is: a)□ a	approved b) \square disapproved by the Examiner.		
	If approved, corrected drawings are required in reply t	o this Office action.	•		
12)	The oath or declaration is objected to by the Exami	ner.			
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) 🕽	$(All b)\square$ Some* c) \square None of:	•			
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
	3. \(\overline{\text{X}} \) Copies of the certified copies of the priority do application from the International Bures the attached detailed Office action for a liet of the	au (PCT Rule 17.2(a)).	•		
_	ee the attached detailed Office action for a list of the				
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).					
a) In the translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachm		priority under 55 0.5.	C. 33 120 dilu/01 121.		
	tice of References Cited (PTO-892)	4) Interview Summary (PTC	O-413) Paper No(s).		
2) 🗌 No	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Paten	t Application (PTO-152)		
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kowols(4,490,727) in view of Tanizaki et al.(6,268,833).

Claims 11-12 and 14-17, figure 3 of Kowols discloses a rod antenna(16) and a moveable hollow dielectric body. Kowols discloses manual adjustment of the dielectric body instead of the recited adjusting part, detection part and control device. Figure 8 of Tanizaki discloses adjusting the overlap position of a dielectric body(fig. 3, no. 11) by using a position sensor as a detection part, a stepping motor unit as an adjusting part, and a control device as recited to obtain an improved radiation pattern from an antenna element(cols. 1 & 2).

Claim 13, the dielectric bodies in relative motion disclosed in Tanizaki are parallel and overlapping. Given this disclosure, a parallel rod shaped dielectric would be an obvious modification over the dielectric body disclosed in Kowols.

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Claims 18-20, the limitations recited in these claims, a ceramic dielectric, starting out the overlap at a maximum, and detecting the power of a signal, are obvious modifications of the disclosed device because these are limitations which are well known in the antenna art.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the adjusting mechanisms disclosed in Tanizaki with the device disclosed in Kowols to obtain an improved radiation pattern from an antenna as disclosed in Kowols.

Correspondence

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Jim Clinger whose phone number is (703) 305-0619.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center whose telephone number is (703) 308-0956.

Papers related to Technology Center 2800 applications only may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center Fax Center number is (703) 308-7722 or (703) 308-7724.

Jully